

CLAIMS:

1. Offset paper, which is characterized in that a coating layer containing an inorganic surface preparation agent mainly comprising silica sol or colloidal silica is provided on base paper for offset printing. (Embodiments 1 to 3)
2. The offset paper as claimed in Claim 1, which is characterized in that the inorganic surface preparation agent contains an inorganic pigment. (Embodiment 4)
3. The offset paper as claimed in Claim 2, which is characterized in that, in the inorganic surface preparation agent, an addition ratio of the inorganic pigment to the inorganic surface preparation agent is 5 to 50wt.%. (Embodiments 1 to 4)
4. The offset paper as claimed in Claim 2 or Claim 3, which is characterized in that the inorganic pigment is titanium oxide, calcium carbonate or white carbon. (Embodiment 5 and 6)
5. The offset paper as claimed in any one of Claims 2 to 4, which is characterized in that the inorganic surface preparation agent contains a surface-sizing agent. (Embodiment 7)
6. The offset paper as claimed in Claim 5, which is characterized in that a weight ratio of the surface-sizing agent in the inorganic surface preparation agent is 5 to 30wt.% to colloidal silica or silica sol. (Embodiment 7)
7. The offset paper as claimed in Claim 6, which is characterized in that the surface-sizing agent is styrene-acrylic acid copolymer, alkyd resin, styrene-maleic acid copolymer or olein-maleic acid copolymer. (Embodiments 8 to 10)
8. The offset paper as claimed in any one of Claims 5 to 7, which is characterized in that the inorganic surface preparation agent contains 5 to 40 parts by weight of titanium oxide to 100 parts by weight of colloidal silica or silica sol. (Embodiment 11)
9. The offset paper as claimed in any one of Claims 2 to 8, which is characterized in that the inorganic surface preparation agent contains an organic binder. (Embodiment 12)
10. The offset paper as claimed in Claim 1, which is characterized in that the inorganic surface preparation agent contains an inorganic salt. (Embodiment 13)
11. The offset paper as claimed in Claim 10, which is characterized in that the inorganic salt is sodium sulfate or sodium nitrate. (Embodiments 13 to 15)

12. The offset paper as claimed in Claim 11, which is characterized in that an addition ratio of the inorganic salt is 5 to 250 parts by weight to 100 parts by weight of colloidal silica or silica sol. (Embodiments 10 to 12)

13. The offset paper as claimed in Claim 10, which is characterized in that a surface-sizing agent is contained. (Embodiment 16)

14. The offset paper as claimed in Claim 13, which is characterized in that the surface-sizing agent is styrene-acrylic acid copolymer, alkyd resin, styrene-maleic acid, or olefin-maleic acid. (Embodiments 16 to 20)

15. The offset paper as claimed in Claim 10, which is characterized in that an organic binder is contained. (Embodiments 23 and 24)

16. The offset paper as claimed in Claim 15, which is characterized in that the organic binder is oxidized starch or cationic polyacrylamide. (Embodiments 21 and 22)

17. The offset paper as claimed in Claim 10, which is characterized in that an organic binder and a surface-sizing agent are contained. (Embodiment 15)

18. The offset paper as claimed in any one of Claims 10 to 17, which is characterized in that the inorganic surface preparation agent contains an organic binder, a surface-sizing agent and titanium oxide and that a ratio of the titanium oxide is 5 to 40 parts by weight to 100 parts by weight of the solid content of colloidal silica or silica sol. (Embodiments 2 to 6)

19. Newsprint paper for offset printing as claimed in Claims 1 to 18, which is base paper for offset printing having basis weight within the limits of 37 g/m² to 45 g/m².